

The Evolution of Foreshock Magnetosonic Waves: ISEE-3 Downstream Observations

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During the geotail phase of ISEE-3, a number of lunar gravitational
assistances placed ISEE in orbits which transversed the region
downstream of the foreshock. Magnetosonic waves detected in
this downstream region are highly time evolved. Previous analyses
of both cometary waves and of computer simulations, indicate that
the ULF waves broaden spatially with time, such that for a wave
train consisting of many wave cycles, the individual waves will
collide with each other. We investigate this wave-wave process
and discuss the results in light of the development of plasma
turbulence.

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